What it claimed is: 1. A method of producing an Indium Tin Oxide powder comprising the steps of: (1) mixing a raw aqueous solution containing indium ions 5 and tin ions and having a proportion of divalent tin ions in the tin ions of 50 wt% or more with an alkali aqueous solution, (2) separating the product into solid and liquid, and (3) calcinating the resulted solid. 2. The production method according to Claim 1 wherein 10 the step (1) includes feeding a raw aqueous solution containing indium ions and tin ions and having a proportion of divalent tin ions in the tin ions of 50 wt% or more and an alkali aqueous solution to water of $40^{\circ}\mathrm{C}$ or more and less than 100° C, and reacting the raw aqueous solution and the alkali aqueous solution under a condition of a pH of 4 or more 15 and 7 or less. 3. The production method according to Claim 1 wherein the raw aqueous solution is prepared by dissolving a water-soluble indium salt selected from indium chloride and 20 indium nitrate and a water-soluble divalent tin salt in water. 4. The production method according to Claim 1 wherein the raw aqueous solution is prepared by dissolving a water-soluble indium salt and a water-soluble divalent tin salt selected from stannous chloride and tin sulfate. 25 5. The production method according to Claim 1 wherein - 38 **-**

the raw aqueous solution is prepared by dissolving a substance containing indium, tin and oxygen in an acid.

6. The production method according to Claim 1 wherein the raw aqueous solution is prepared by dissolving a substance containing indium, tin and oxygen in hydrochloric acid.

5

10

15

20

- 7. The production method according to Claim 1 wherein the raw aqueous solution is prepared by dissolving a mixture of an indium compound selected from indium oxide and indium hydroxide and a tin compound selected from tin oxide and tin hydroxide in an acid or dissolving Indium Tin Oxide in an acid.
- 8. The production method according to Claim 1 wherein the raw aqueous solution is prepared by dissolving a mixture of an indium compound selected from indium oxide and indium hydroxide and a tin compound selected from tin oxide and tin hydroxide in hydrochloric acid or dissolving Indium Tin Oxide in hydrochloric acid.
- 9. The production method according to Claim 1 wherein the raw aqueous solution is prepared by reduction-treating an aqueous solution containing indium ions and tetravalent tin ions.
- 10. The production method according to Claim 1 wherein the content of tin oxide in the raw aqueous solution in the step (1) is 2 wt% or more and 20 wt% or less based on the total amount of indium oxide and tin oxide.
- 25 11. The production method according to Claim 1 wherein

the raw aqueous solution is allowed to contact with an ion exchanged resin.

12. The production method according to Claim 1 wherein the calcination is conducted in an atmosphere containing a hydrogen halide and/or a halogen in which the total content thereof is 1 volume % or more and under a condition of a temperature of 600% or more and 1300% or less.

5

13. The production method according to Claim 1 wherein the alkali aqueous solution is an aqueous solution of sodium10 hydroxide and/or potassium hydroxide.